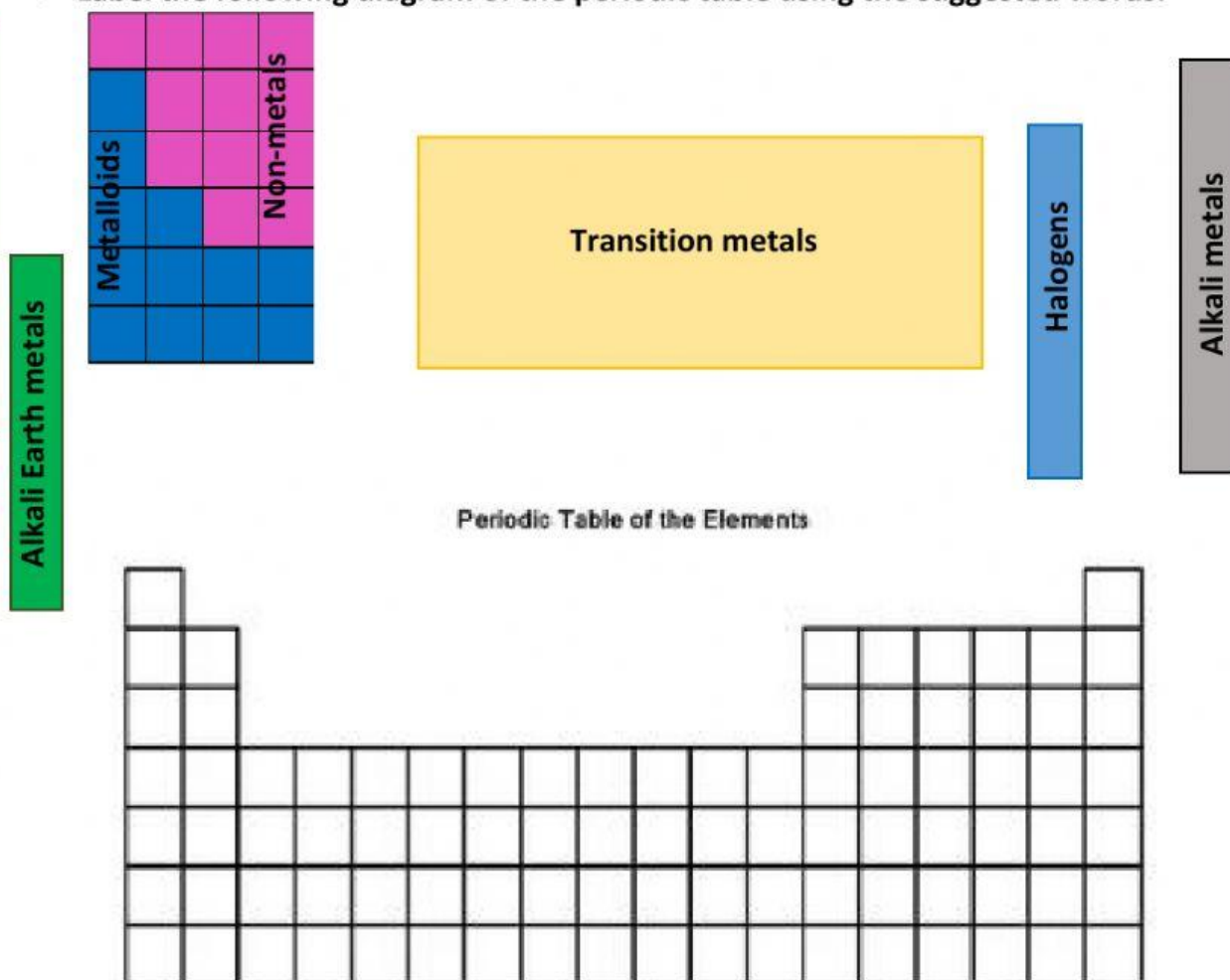


Lithium, the first alkali metal in the periodic table, is a soft dull solid. It is a good conductor of electricity and is shiny when cut. Lithium reacts with many substances. It burns in oxygen to form lithium oxide. It also reacts with water to form hydrogen and lithium hydroxide, which is an alkali. Use your knowledge of the alkali metals to complete these sentences about them.

- In the periodic table the alkali metals are found in group _____.
- The alkali metals are all stored _____ to keep out air and water.
- When sodium burns: sodium + _____ $\rightarrow$ _____.
- When potassium is added to water the gas formed is _____.
- They are called alkali metals because they form an alkali when _____.

- Label the following diagram of the periodic table using the suggested words:



- Drag and drop the following boxes to organise equations for the products below:

			
			
			
copper	sodium	oxygen	
carbon	magnesium	sodium	
oxygen	sulfur	phosphorus	
copper	phosphorus	oxygen	
magnesium	carbon	oxygen	
oxygen	oxygen	sulfur	
oxide	oxide	oxide	
oxide	dioxide	dioxide	

1) Magnesium oxide:

2) Phosphorus oxide:

3) Carbon dioxide:

4) Sulfur dioxide:

5) Copper oxide:

6) Sodium oxide:

- Organise the oxides into the table below:

Magnesium oxide

Sodium oxide

Phosphorus oxide

Carbon dioxide

Sulfur dioxide

Copper oxide

Metal oxides	Non-metal oxides

Complete the following word equations using the words in the box below.

carbon	hydrogen	lithium	oxygen	sodium	sodium oxide	water
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a _____ + _____ → lithium oxide

b sodium + oxygen → _____

c _____ + oxygen → carbon dioxide

d _____ + _____ → sodium hydroxide + _____